

ABSTRACT

A winding 36 of a choke coil 31 is closely wound in a single layer on the outer periphery of a cylindrical body portion 33 of a bobbin 32. A winding 37 is closely wound in a single layer over the winding 36. A winding 46 is closely wound in a single layer on the outer periphery of a cylindrical body portion 43 of a bobbin 42. A winding 47 is closely wound in a single layer over the winding 46. The windings 36, 37, 46, and 47 are wound so as to mutually strengthen magnetic fluxes when an in-phase noise current flows. The windings 36 and 37 are connected to a pair of signal lines via which differential transmission communication is performed and on which a power supply current goes. The windings 46 and 47 are connected to a pair of signal lines via which differential transmission communication is performed and on which the power supply current returns. Thus, a circuit using a compact choke coil having large inductance and better high-frequency characteristics, and the choke coil can be provided.